


ELECTRICAL REGULATION SCHEME

EXAMPLE 2: HOME HEATING AND COOLING POWER PLAT WITH BOILER AND HEAT PUMPS

TITLE PAGE

PAGE 1	OF 14	DATE 30/07/2021	CUSTOMER
	REVIEW rev. 1.00	SYSTEM EXAMPLE 2	 Eletronica Per il Comfort

INDICATIONS FOR CHOOSING THE BUS CABLE

REG System devices require 12V DC power and the BUS connection, therefore a total of 4 wires. The REG bus uses the EIA-485 standard (formerly known as RS-485), so the first choice is to use cables specifically created for this type of bus.


The ideal installation is 2 × 1.5 sq mm red and black cable for power supply and a twisted and shielded cable specific for BUS EIA-485, such as for example:

- BELDEN, 9841 (see also <https://www.belden.com/products/cable/electronic-wire-cable/rs-485-cable>)
- CEAM, CPR 6003
- TASKER, C521
- FANTON, ACS 9841

Attention: these models are given as an example of cables that have suitable electrical characteristics; the electrical designer must verify the correspondence of the chosen cable to the system specific needs: type of installation, fire resistance, etc.; in particular, BELDEN has a whole family of EIA-485 cables, suitable for any type of installation.


The use of this type of cable and the “in / out” wiring compliance is mandatory!

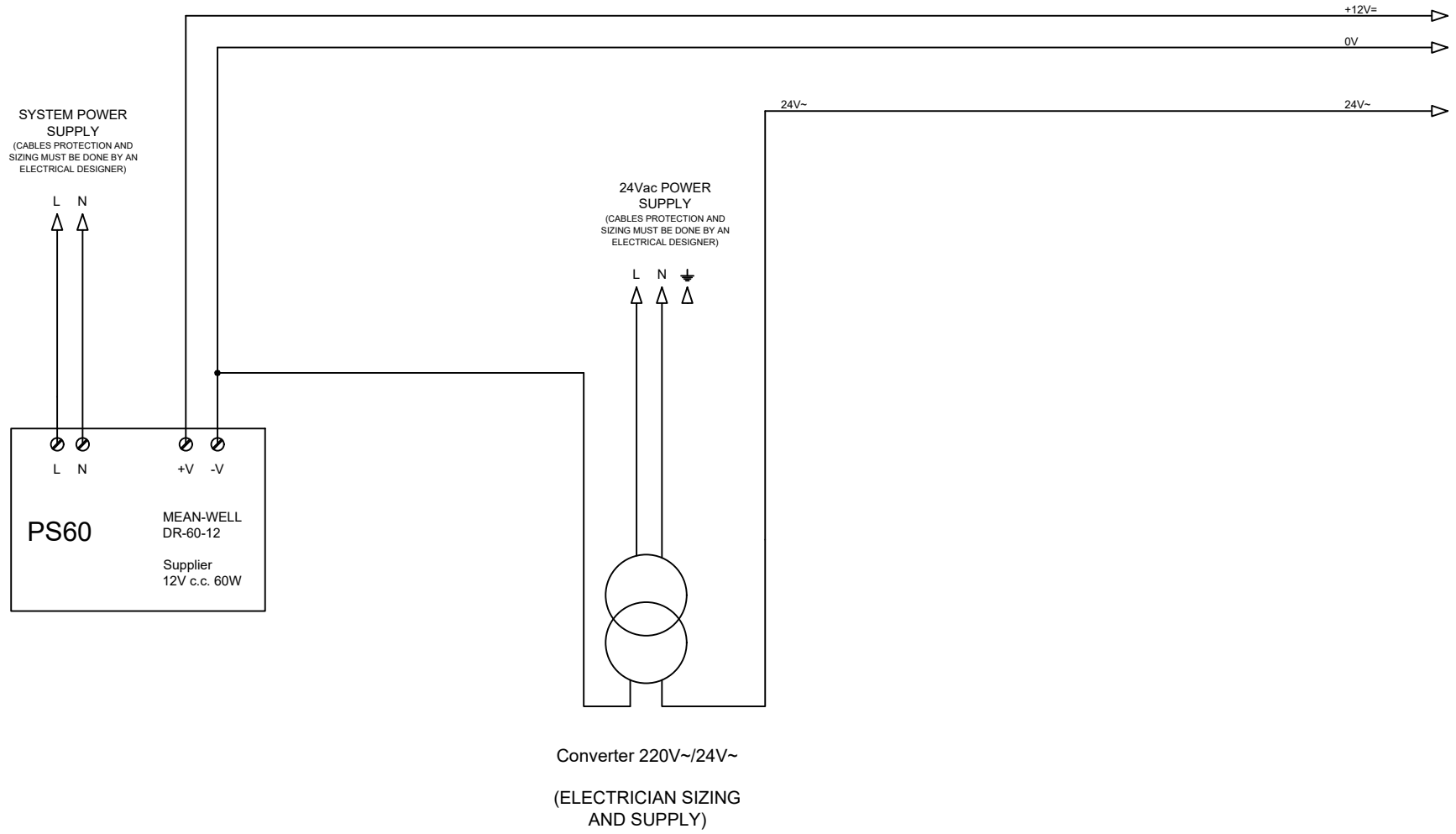
BUS CABLE TYPES	PAGE	OF	DATE	CUSTOMER
	2	14	30/07/2021	
	REVIEW	rev. 1.00		SYSTEM EXAMPLE 2



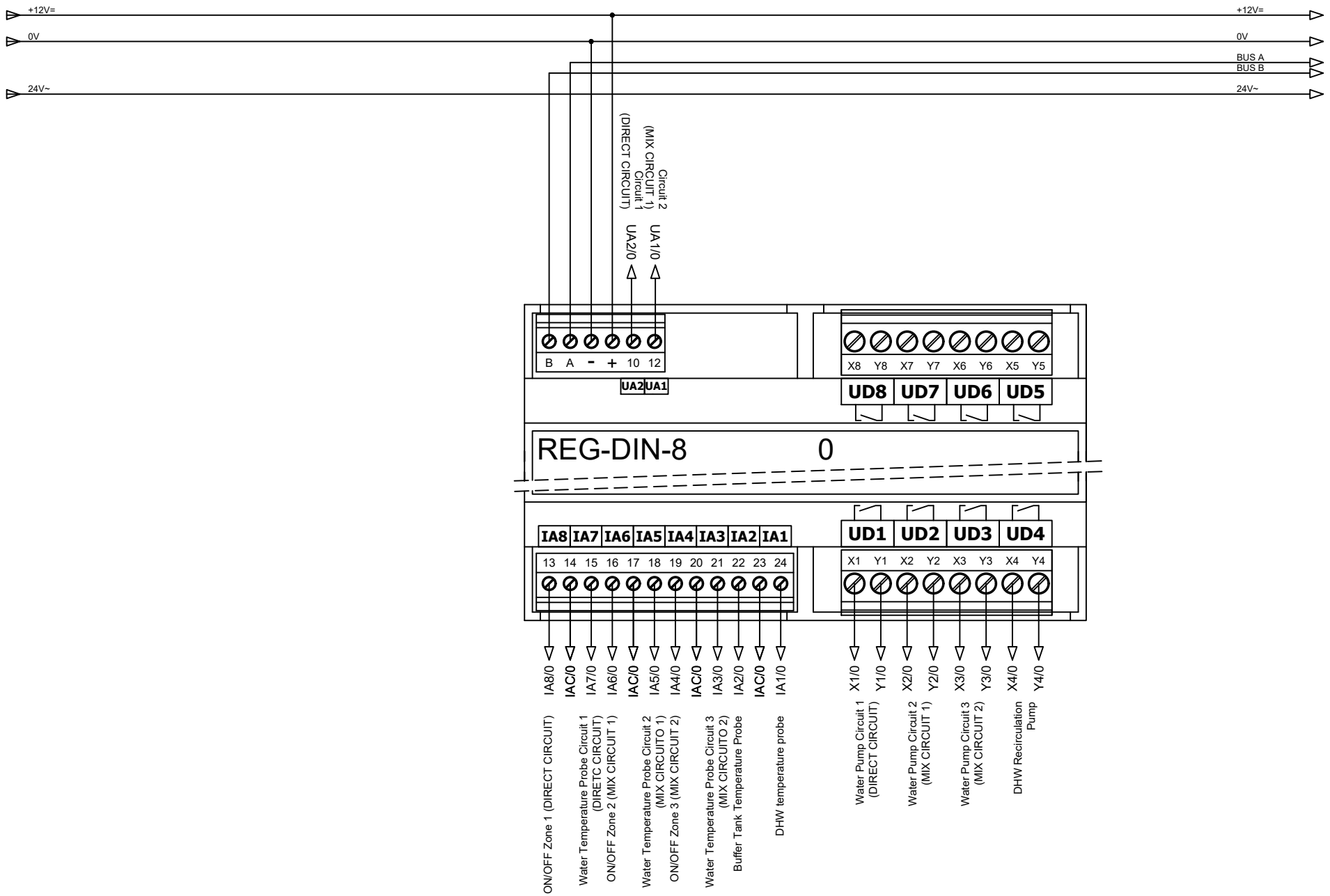
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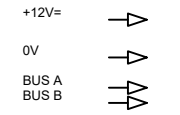
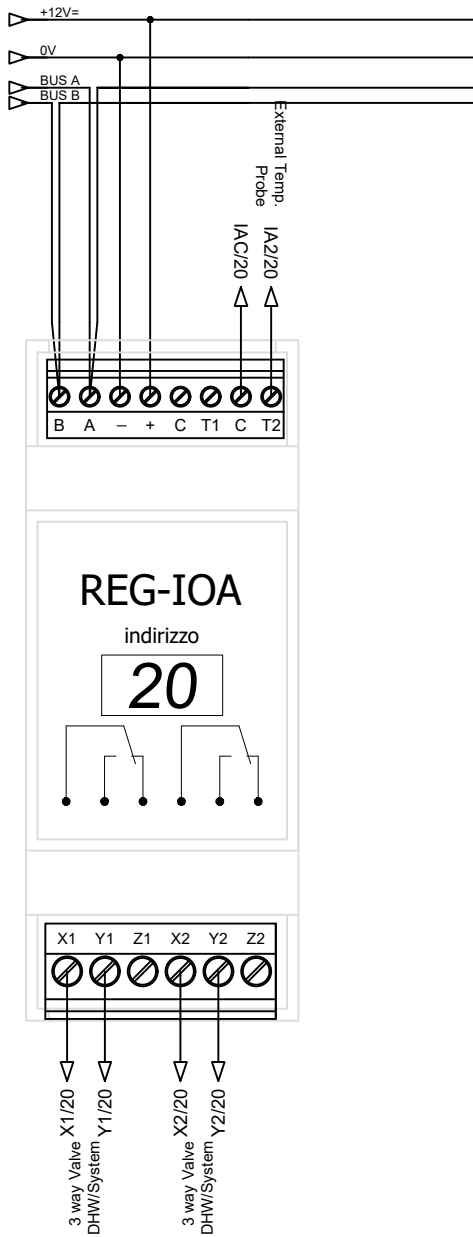
PAGE 3	OF 14	DATE 30/07/2021	CUSTOMER	 Eletronica Per il Comfort
	REVIEW rev. 1.00		SYSTEM EXAMPLE 2	



PAGE 4	OF 14	DATE 30/07/2021	CUSTOMER
REVIEW rev. 1.00		SYSTEM EXAMPLE 2	

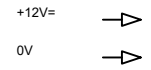
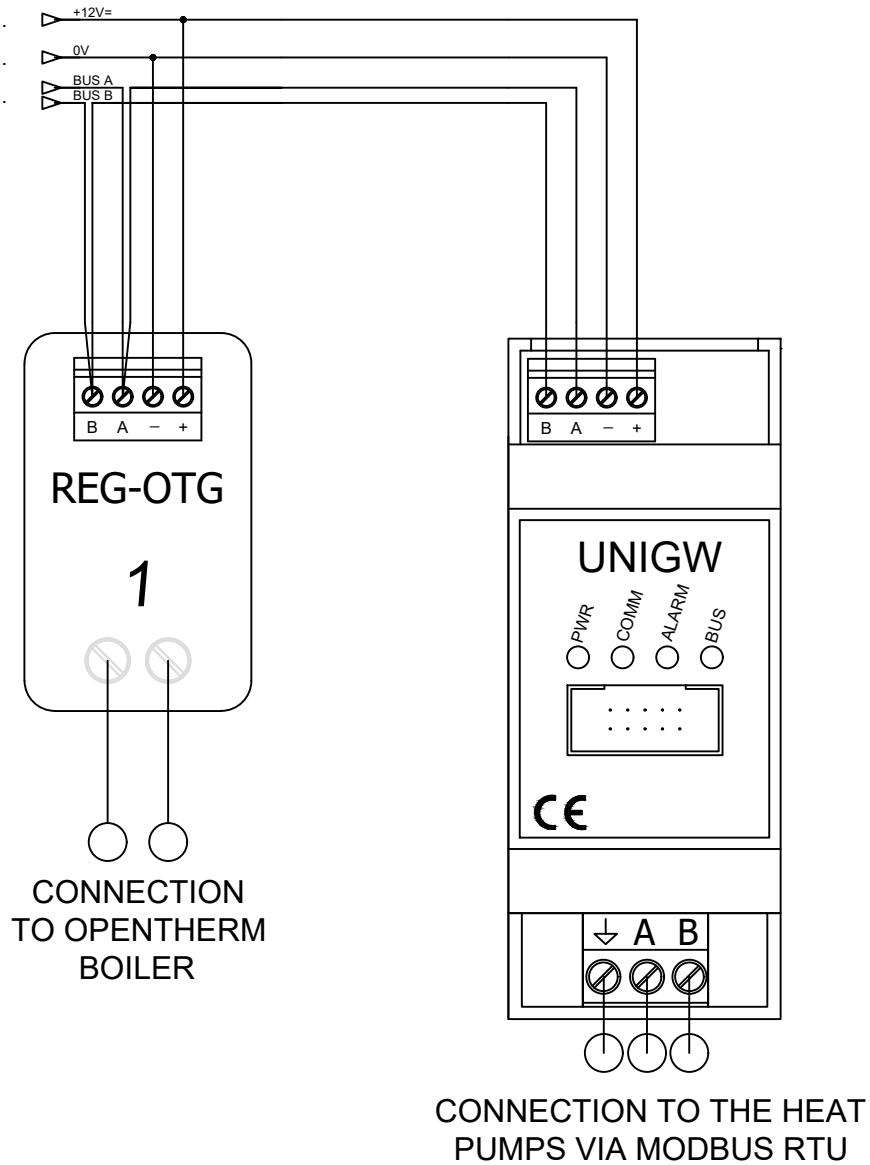


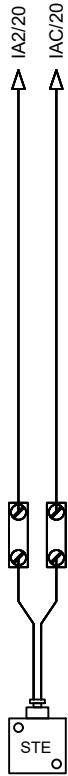
PAGE 5	OF 14	DATE 30/07/2021	CUSTOMER
REVIEW rev. 1.00		SYSTEM EXAMPLE 2	



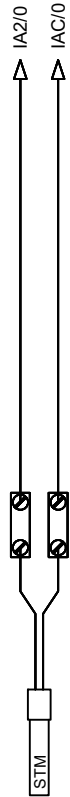
Expansion PCB Board

PAGE 6	OF 14	DATE 30/07/2021	CUSTOMER
REVIEW rev. 1.00		SYSTEM EXAMPLE 2	

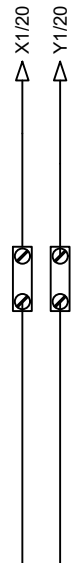




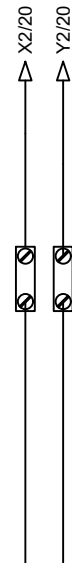
External Temperature Probe



Buffer Tank

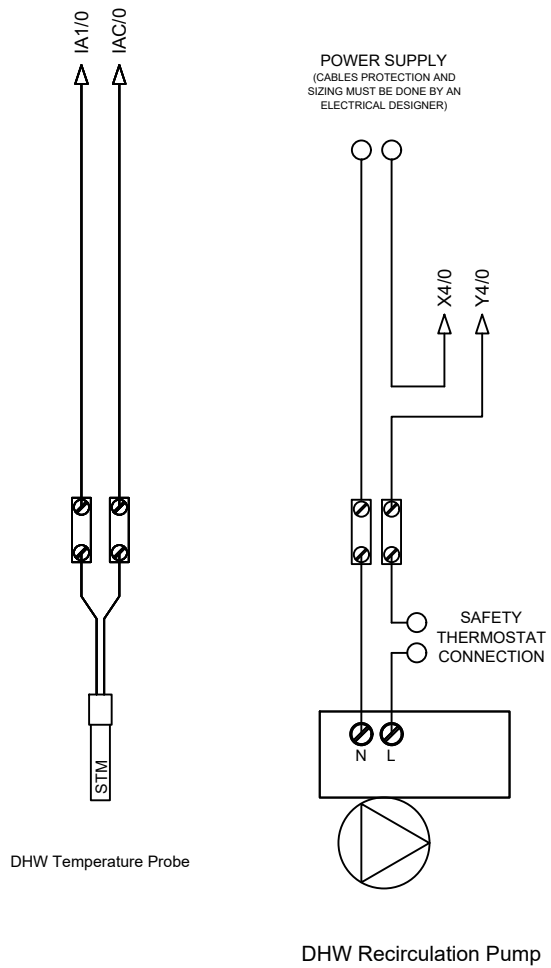


3 way Valve DHW/System



3 way Valve DHW/System

PAGE 8	OF 14	DATE 30/07/2021	CUSTOMER
REVIEW rev. 1.00			SYSTEM EXAMPLE 2



PAGE 9	OF 14	DATE 30/07/2021	CUSTOMER
REVIEW rev. 1.00		SYSTEM EXAMPLE 2	



ON/OFF Zone 1
(DIRECT CIRCUIT)



ON/OFF Zone 2
(MIX CIRCUIT 1)



ON/OFF Zone 3
(MIX CIRCUIT 2)

Zones ON/OFF Enable

PAGE 10	OF 14	DATE 30/07/2021	CUSTOMER
REVIEW rev. 1.00			SYSTEM EXAMPLE 2

